

What is claimed is:

1. An apparatus for changing a horizontal/vertical scanning frequency in a decoding block for restoring an MPEG signal including a prediction memory for storing I picture data and forward prediction restored P picture data and a mean operating unit for generating calculated mean data for
5 bidirectional prediction, comprising:
 - a B picture memory for storing B picture data, the B picture data having been bidirectionally prediction restored by the decoding block;
 - a prediction memory switching portion for switching data output from the decoding block to the prediction memory or the B picture memory
10 depending on the type of picture; and
 - an output data switching portion for increasing the switching frequency of data stored in the prediction memory and the B picture memory with respect to a general scanning method, using the motion vector of the decoding block, and outputting converted data.
2. The apparatus of claim 1, wherein the period of a data read is reduced to half by setting read clock frequencies of the prediction memory and the B picture memory to be two times higher than the read clock frequencies of a general scanning method.
3. The apparatus of claim 1, wherein the output data switching portion performs switching control so as to double the vertical scanning frequency of a video signal by repeating output data twice in units of a picture with respect to a general scanning method.
4. The apparatus of claim 1, wherein the output data switching
5 portion performs switching control so as to repeat data of a corresponding horizontal line of a previous picture between horizontal lines of a picture when the value of a motion vector is no more than a reference value and to insert corresponding line data of a previous picture stored in the prediction memory

between the horizontal lines of the picture when the value of the motion vector is larger than the reference value.

5. The apparatus of claim 1, wherein the output data switching portion performs switching control so as to repeat the data of a corresponding horizontal line of a previous picture between horizontal lines of a picture when the value of a motion vector is no more than a reference value and to insert the
- 5 calculated line mean data of the mean operating portion between the horizontal lines of the picture when the value of the motion vector is larger than the reference value.